

Your Ultimate Source for OEM Repair Manuals

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2022 NISSAN Kicks Service and Repair Manual

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1. CHECK DTC PRIORITY

If DTC “C2531-87” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

[GO TO 2](#) .

2. CHECK CHASSIS CONTROL MODULE SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in “Self Diagnostic Result” of “CHASSIS CONTROL”.

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO >>

Replace front camera unit. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2540	04	Backup mode	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal and ethernet communication signal
			Threshold	When ProPILOT Assist 2.0 transitions to syste back-up mode.
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connector from front camera unit to around view monitor control unit
- Harness or connector from front camera unit to ADAS control unit 2
- Around view monitor control unit
- ADAS control unit 2
- Front camera unit

FAIL-SAFE

ProPILOT Assist 2.0 transitions to syste back-up mode.

CONFIRMATION PROCEDURE

1. CHECK DTC PRIORITY

If DTC “C2540-04” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the power switch ON.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C2540-04” is detected as the current malfunction on the self-diagnosis results of “LANE CAMERA”.

Is “C2540-04” detected as the current malfunction?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

Sample

1. CHECK CONSULT DISPLAY OF AROUND VIEW MONITOR CONTROL UNIT

1. Perform "All DTC Reading" with CONSULT.
2. Confirm that the "AVM" item is displayed in "All DTC Reading".

Is any item of "AVM" displayed?

YES>>

[GO TO 2.](#)

NO>>

Check power supply and ground circuit of around view monitor control unit. Refer to [Diagnosis Procedure](#).

2. CHECK AROUND VIEW MONITOR CONTROL UNIT SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "AVM".

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO>>

[GO TO 3.](#)

3. CHECK ETHERNET HARNESS

1. Turn the power switch OFF.
2. Check the ethernet harness connectors and terminals of front camera unit and around view monitor control unit for damage or looseness.

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

Replace the ethernet harness.

4. REPLACE THE ETHERNET HARNESS

1. Replace the ethernet harness.
2. Perform DTC confirmation procedure again. Refer to [DTC Description](#).

Is DTC "C2540-04" detected as the current malfunction?

YES>>

[GO TO 5.](#)

NO>>

5. REPLACE THE AROUND VIEW MONITOR CONTROL UNIT

1. Replace the around view monitor control unit. Refer to [Removal & Installation](#).
2. Perform DTC confirmation procedure again. Refer to [DTC Description](#).

Is DTC "C2540-04" detected as the current malfunction?

YES>>

Replace the front camera unit. Refer to [Removal and Installation](#) (Without ProPILOT Assist 2.0) or [Removal and Installation](#) (With ProPILOT Assist 2.0).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2544	82	Around view control unit	Diagnosis condition	When power switch is ON
			Signal (terminal)	CAN communication signal
			Threshold	Front camera unit detects that around view monitor control unit has a malfunction
			Diagnosis delay time	5 seconds or more

POSSIBLE CAUSE

Around view monitor control unit

FAIL-SAFE

The following systems are cancelled.

- Vehicle-to-vehicle distance control mode^{*1}
- Steering wheel assistance function^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- LDW
- I-LI
- I-BSI
- TSR

*1: With ProPILOT Assist, Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

*3: ProPILOT Assist 2.0 display is green

*4: ProPILOT Assist 2.0 display is blue

CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the power switch ON, and then wait for 5 seconds or more.
2. Perform “All DTC Reading” with CONSULT.
3. Check if the “C2544-82” is detected as the current malfunction on the self-diagnosis results of “LANE CAMERA”.

Is “C2544-82” detected as the current malfunction?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

Sample

1. CHECK DTC PRIORITY

If DTC “C2544-82” is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to [DTC Index](#).

NO>>

[GO TO 2](#) .

2. CHECK AROUND VIEW MONITOR CONTROL UNIT SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in “Self Diagnostic Result” of “AVM”.

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to [DTC Index](#).

NO >>

Replace front camera unit. Refer to [Removal and Installation](#)(Without ProPILOT Assist 2.0) or [Removal and Installation](#)(With ProPILOT Assist 2.0).

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
C2544	83	Around view control unit	Diagnosis condition	When power switch is ON
			Signal (terminal)	CAN communication signal
			Threshold	Front camera unit detects that around view monitor control unit has a malfunction
			Diagnosis delay time	5 seconds or more

POSSIBLE CAUSE

Around view monitor control unit

FAIL-SAFE

The following systems are cancelled.

- Vehicle-to-vehicle distance control mode^{*1}
- Steering wheel assistance function^{*1}
- Conventional (fixed speed) cruise control mode^{*1}
- Vehicle speed & vehicle-to-vehicle control function^{*2}
- Lane keep function^{*2,3}
- Lane keep function^{*2,4}
- Lane change support function^{*2}
- Overtaking support function^{*2}
- Route driving support function^{*2}
- AEB
- LDW
- I-LI
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- TSR

*1: With ProPILOT Assist, Without ProPILOT Assist 2.0

*2: With ProPILOT Assist 2.0

*3: ProPILOT Assist 2.0 display is green

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CONFIRMATION PROCEDURE